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780.29643CX4

December 6, 1999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Thomas J. CAMPANA, Jr. et al

Serial No.:

To Be Assigned

(Concurrently Herewith)

Filed:

December 6, 1999

(Concurrently Herewith)

For:

ELECTRONIC MAIL SYSTEM WITH RF

COMMUNICATIONS TO MOBILE PROCESSORS

Group:

2744 (Previous)

Examiner:

William Trost (Previous)

SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner for Patents

Washington, D. C. 20231

sir:

Submitted herewith are twelve (12) sheets of Formal Drawings (non-bristol boards) showing Figs. 1-12 in the above-identified application in compliance with the provisions of Rule 84.

Respectfully submitted,

ANTONELLI / TERRY, STOUT & KRAUS, LLP

Donald E. Stout

Registration No. 26,422

(703) 312-6600

DES:dlh

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors:

THOMAS J. CAMPANA, JR., MICHAEL P. PONSCHKE,

and GARY F. THELEN

Invention:

ELECTRONIC MAIL SYSTEM WITH RF

COMMUNICATIONS TO MOBILE PROCESSORS

Antonelli, Terry, Stout & Kraus Suite 600 1919 Pennsylvania Avenue, N. W. Washington, D. C. 20006

SPECIFICATION

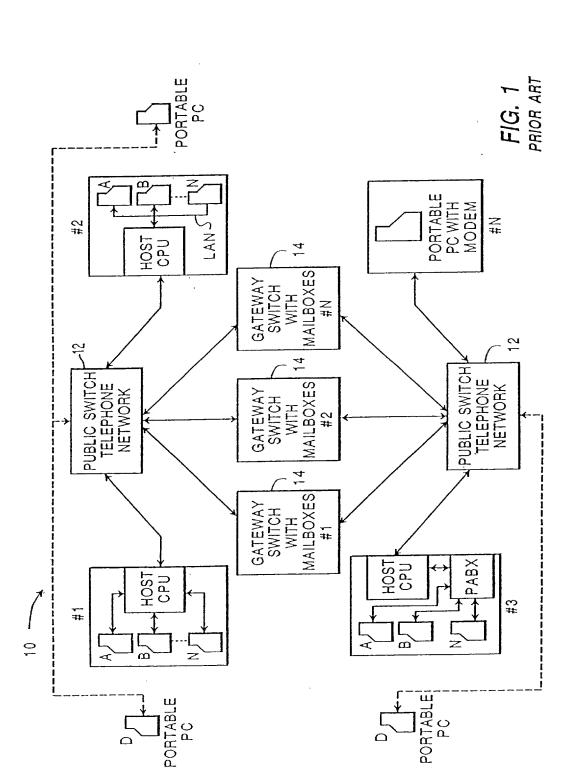
To all whom it may concern:

Be it known that We, Thomas J. Campana, Jr., Michael P. Ponschke, and Gary F. Thelen, citizens of the United States, residing respectively at 3836 West 86th Street, Chicago, Illinois 60652; 212 Tara Drive, Lockport, Illinois 60441; and 16 Fox Lane, Palos Park, Illinois 60464; have invented certain new and useful improvements in

ELECTRONIC MAIL SYSTEM WITH RF COMMUNICATIONS TO MOBILE PROCESSORS

of which the following is a specification.

第1



F/G. 20 (PRIOR ART) DEVICE HUB SWITCH #P TO OTHER HUBS PERIPHERAL 79/ _ ≘ HUB SWITCH #2 V128 TO CLOSEST HUBS 950XXXX 126 112/12/ ,124 LATA SWITCH #N 2021 8 7124 TO OTHER HUBS SSOXXXX 121 126 TO CLOSEST LATA SWITCHES TO Y KUB S¥1TCH # <u></u> 13/ <u>ર્</u>જ TRUKK <u>€</u> LOCAL PACING 115 SERVICE LATA SWITCH #1 127 TO CLOSEST HUBS 8 782 ₹ 721 124 } ≌

APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

FIG. 3 (PRIOR ART)

SWITCH MEMORY MAP LOCAL 160 158 156 154 LOCAL FREQUENCY SUBSCRIBER S N (9999) LATA FILES **BUFFERS BUFFERS** FILES N (1,000) 184 INBOUND 162 FILE 1 (1,000) ① FILE # I (0,000) **PAGES** 164 INBOUND 0-15 FRE-② TELEPHONE # 166 0 LATA (3) SUBSCRIBER AND PAGER ID CODE QUENCIES USED 168 BUFFER IN REGION COR-(4) SERVICE OPTIONS ١ **(1)** NO SERVICE RESPONDING TO (b) LOCAL FILE # 2 180 © REGIONAL (d) NATIONAL 3 (e) ABOVE WITH REPEAT PAGING 4 **(f)** DATA SERVICE (9) EXTERNAL DATA 186 170 OUTBOUND (5) SUBSCRIBER NAME/ACCOUNT 172 5 LATA 6 ACCOUNT # 174 BUFFER 1 PAGE COUNT (L,R,N) 176 6 (8) # OF DATA CHARACTERS SENT 178 (9) DESTINATIONS AREA CODE(S) 7 182 8 FILE # N (999) 9 FILE # N (9999) ID CODE **BUFFERS**

APPROVED O.G. FIG.

CLASS SUBCLASS DRAFTSMAN

F/G. 4

(PRIOR ART)

		(111101	() () ()		
		LATA SWITCH 190	MEMORY MAP 192	194	196
188	HUB BUFFERS	LOCAL BUFFERS	L ATA 1D MEMORY	OPTIONAL	OPTIONAL
l98 <u> </u>	OUTBOUND PAGES	INBOUND PAGES 202 OUTBOUND PAGES LOCAL # 1	ALL PAGER ID CODES OF LOCAL#1	ALL CALL BUFFER PAGES	BUFFER PAGES
200	INBOUND Pages	204		FROM HUB SWITCH	FROM LOCAL SWITCHES
	,	OUTBOUND LOCAL # N (25)	ALL PAGER ID CODES OF LOCAL ≠ N (26)		

APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

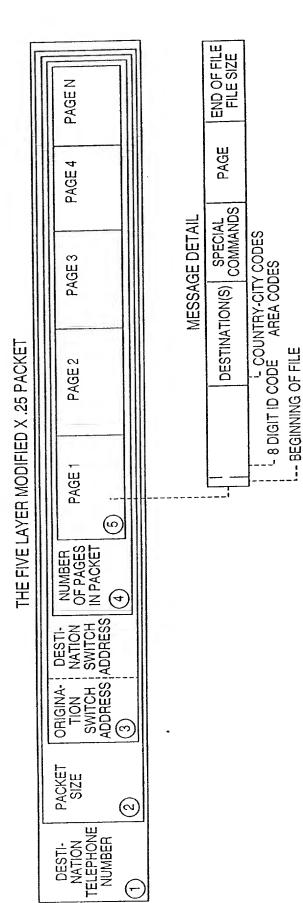
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F/G. 5 (PRIOR ART)

HUB SWITCH MEMORY MAP

	206	208	210	212	
	HUB BUFFERS	LATA BUFFERS	LATA CODE TABLES N (100)	HUB ROUTING CODES N (1000)	
	INBOUND HUB#1	INBOUND LATA # I	LATA	ROUTING CODE 1,2,3,4,5,6 (312)	4
		218	CODE 222 #		
214					
	INBOUND HUB # N (6)	INBOUND LATA # N (100)		(
	OUTBOUND HUB I	OUTBOUND LATA I			
1					
	**				
1					
i		220 ——			
216					
	·		LATA CODE		
	OUTBOUND HUB # N (6)	OUTBOUND LATA # N (100)	# N (100)	ROUTING CODE # N (999)	

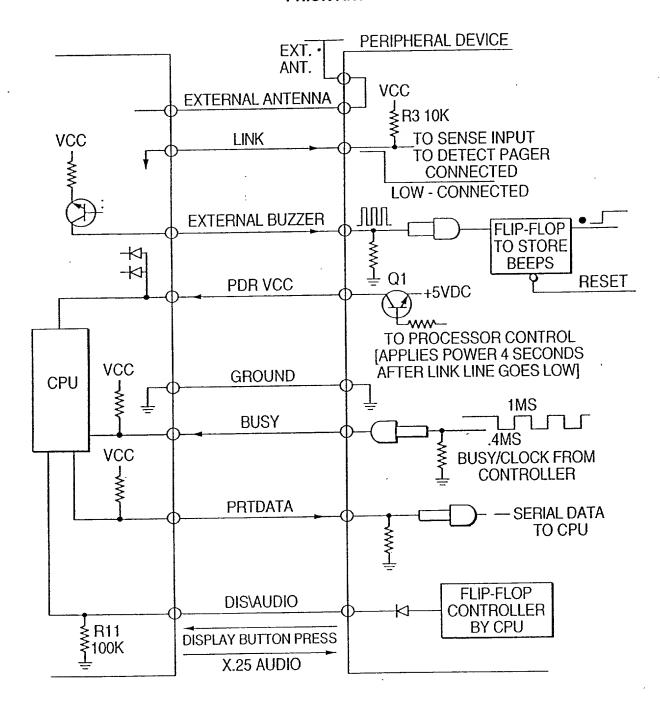
F/G. 6 PRIOR ART



APPROVED	O.G. FIG.		
BÝ	CLASS	SUBCLASS	
DRAFTSMAN			

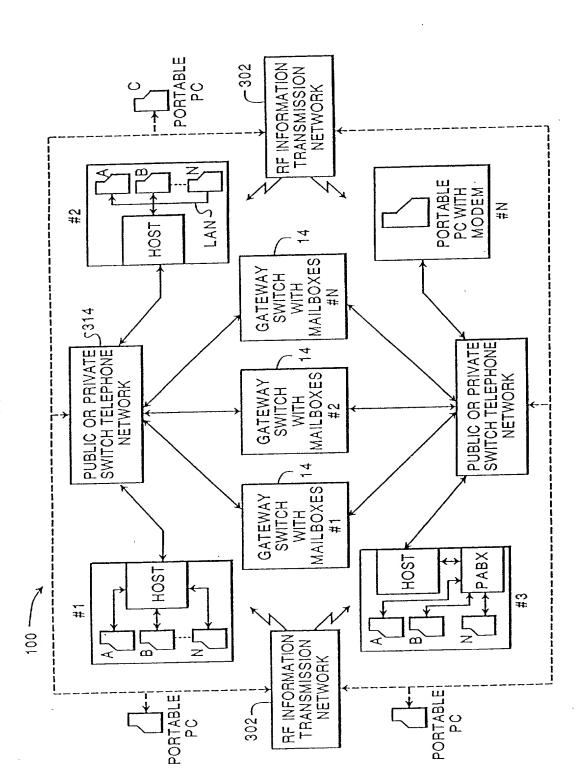
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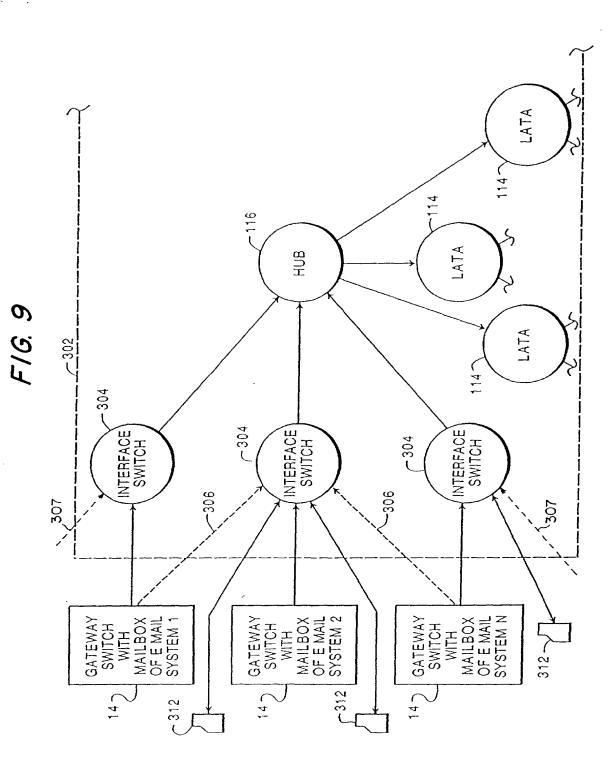
FIG. 7
PRIOR ART



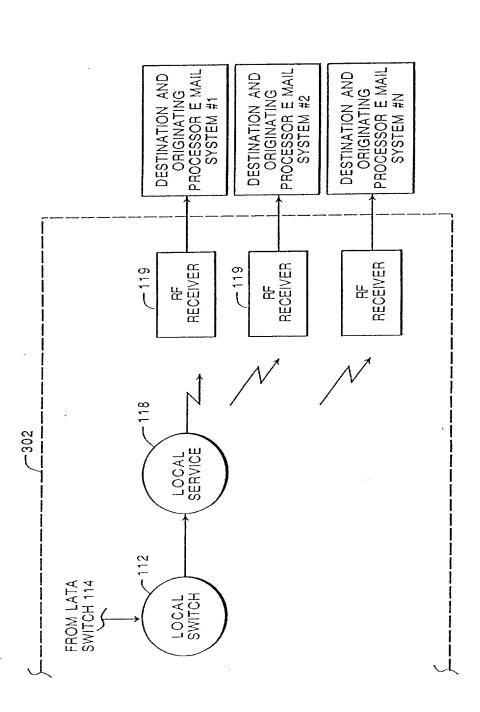
APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			

F/G. 8





F1G. 10



NO ACTION OTHER THAN ID VERIFICATION THAN ID VERIFICATION THAN ID VERIFICATION THAN ID VERIFICATION NO ACTION OTHER NO ACTION OTHER NO ACTION OTHER ADDS ID OF RECEIVER 119 ADDS ID OF RF RECEIVER 119 ADDS ID OF RECEIVER 119 INTERFACE SWITCH 304 DESTINATION AND ID OF RECEIVER 119 ADDS ID OF RECEIVER 119 ADDS WIRELESS ADDS WIRELESS DESTINATION NO-ACTION NO-ACTION GATEWAY SWITCH 14 NO-ACTION NO-ACTION ADDS DESTINATION PROCESSOR, OPERATOR POINTS TO DISPLAYED ICON, ORIGINATING PROCESSOR ADDS WIRELESS DESTINATION AND ID OF RECEIVER 119(BY COMPARING ADDS DESTINATION PROCESSOR, OPERATOR POINTS TO DISPLAYED ICON, ORIGINATING PROCESSOR ADDS WIRELESS DESTINATION. ADDS DESTINATION PROCESSOR, OPERATOR POINTS TO DISPLAYED ICON, ORIGINATING PROCESSOR ADDS WIRELESS DESTINATION. ADDS DESTINATION PROCESSOR ADDS DESTINATION PROCESSOR ADDS INTERFACE (WIRELESS)
DESTINATION AND DESTINATION
PROCESSOR ADDS INTERFACE (WIRELESS) DESTINATION AND ID OF RECEIVER 119 ORIGINATING PROCESSOR -METHOD ENTRY ဖ က N

DESTINATION PROCESSOR TO ID TABLE)

APPROVED O.G. FIG.		
BY	CLASS	SUBCLASS
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